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0574

#8

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/014,101

DATE: 05/22/2002

TIME: 12:12:21

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2 <110> APPLICANT: Schmulling, Thomas
3   Werner, Tom s
5 <120> TITLE OF INVENTION: Method for modifying plant morphology, biochemistry and
6   physiology
8 <130> FILE REFERENCE: 1195-2
10 <140> CURRENT APPLICATION NUMBER: US 10/014,101
11 <141> CURRENT FILING DATE: 2001-12-10
13 <150> PRIOR APPLICATION NUMBER: PCT/EP01/06833
14 <151> PRIOR FILING DATE: 2001-06-16
16 <150> PRIOR APPLICATION NUMBER: EP 00870132.8
17 <151> PRIOR FILING DATE: 2000-06-16
19 <150> PRIOR APPLICATION NUMBER: US 60/258,415
20 <151> PRIOR FILING DATE: 2000-12-27
22 <150> PRIOR APPLICATION NUMBER: EP 01870053.4
23 <151> PRIOR FILING DATE: 2001-03-16
25 <160> NUMBER OF SEQ ID NOS: 36
27 <170> SOFTWARE: PatentIn Ver. 2.1
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30 <211> LENGTH: 2236
31 <212> TYPE: DNA
32 <213> ORGANISM: Arabidopsis thaliana
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37 gtttagtacct caaaagaatt accttcttca aatccttcag atattcggtc ctcattagtt 180
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45 atcagcggtc aagcattcaa gcatggaccc caaatcaaca acgtctacca gctagagatt 660
46 gttacaggta tttcattcat gctttatctc tgcggtagtc tcaaaaaaat atgcacctgt 720
47 aaagaatatc catctcttca tgagcaaaaa cactgacgac ttttaataat ttttgactat 780
48 aaaacaagag tgcattaggca caaatgtgaa atatgcaaca cacaattgta acttgacca 840
49 agaaaaaagt tataaaaaca aacaactgat aagcaatata tttccaatat ttaatcaggg 900
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59 ctactagcct actaacataa tgaatggttg ccgtgcagga aactggcaag ttacttttcag 1500
60 agttaaatta tattccatcc actttgtttt catctgaagt gccatatatc gagtttctgg 1560
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64 agtaagttag caaaatgcca aaagcaaatg cgtccagtga ttctgaaaca taaattacta 1800
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75 &lt;211&gt; LENGTH: 575

76 &lt;212&gt; TYPE: PRT

77 &lt;213&gt; ORGANISM: Arabidopsis thaliana

79 &lt;400&gt; SEQUENCE: 2

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84   20           25           30
86 Thr Asn Leu Cys Ser Asn His Ser Val Ser Thr Pro Lys Glu Leu Pro
87   35           40           45
89 Ser Ser Asn Pro Ser Asp Ile Arg Ser Ser Leu Val Ser Leu Asp Leu
90   50           55           60
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93   65           70           75           80
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96   85           90           95
98 Val Phe Asp Ile Ser Ser Met Met Lys His Ile Val His Leu Gly Ser
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102  115          120          125
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107 Arg Ser Pro Asp Ile Arg Ile Tyr Lys Gly Lys Gln Pro Tyr Val Asp
108 145          150          155          160
110 Val Ser Gly Gly Glu Ile Trp Ile Asn Ile Leu Arg Glu Thr Leu Lys
111          165          170          175
113 Tyr Gly Leu Ser Pro Lys Ser Trp Thr Asp Tyr Leu His Leu Thr Val
114          180          185          190
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126      245      250      255
128 Ile Ser Leu Glu Pro Ala Pro His Met Val Lys Trp Ile Arg Val Leu
129      260      265      270
131 Tyr Ser Asp Phe Ser Ala Phe Ser Arg Asp Gln Glu Tyr Leu Ile Ser
132      275      280      285
134 Lys Glu Lys Thr Phe Asp Tyr Val Glu Gly Phe Val Ile Ile Asn Arg
135      290      295      300
137 Thr Asp Leu Leu Asn Asn Trp Arg Ser Ser Phe Ser Pro Asn Asp Ser
138 305      310      315      320
140 Thr Gln Ala Ser Arg Phe Lys Ser Asp Gly Lys Thr Leu Tyr Cys Leu
141      325      330      335
143 Glu Val Val Lys Tyr Phe Asn Pro Glu Glu Ala Ser Ser Met Asp Gln
144      340      345      350
146 Glu Thr Gly Lys Leu Leu Ser Glu Leu Asn Tyr Ile Pro Ser Thr Leu
147      355      360      365
149 Phe Ser Ser Glu Val Pro Tyr Ile Glu Phe Leu Asp Arg Val His Ile
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152 Ala Glu Arg Lys Leu Arg Ala Lys Gly Leu Trp Glu Val Pro His Pro
153 385      390      395      400
155 Trp Leu Asn Leu Leu Ile Pro Lys Ser Ser Ile Tyr Gln Phe Ala Thr
156      405      410      415
158 Glu Val Phe Asn Asn Ile Leu Thr Ser Asn Asn Asn Gly Pro Ile Leu
159      420      425      430
161 Ile Tyr Pro Val Asn Gln Ser Lys Trp Lys Lys His Thr Ser Leu Ile
162      435      440      445
164 Thr Pro Asn Glu Asp Ile Phe Tyr Leu Val Ala Phe Leu Pro Ser Ala
165      450      455      460
167 Val Pro Asn Ser Ser Gly Lys Asn Asp Leu Glu Tyr Leu Leu Lys Gln
168 465      470      475      480
170 Asn Gln Arg Val Met Asn Phe Cys Ala Ala Asn Leu Asn Val Lys
171      485      490      495
173 Gln Tyr Leu Pro His Tyr Glu Thr Gln Lys Glu Trp Lys Ser His Phe
174      500      505      510
176 Gly Lys Arg Trp Glu Thr Phe Ala Gln Arg Lys Gln Ala Tyr Asp Pro
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179 Leu Ala Ile Leu Ala Pro Gly Gln Arg Ile Phe Gln Lys Thr Thr Gly
180      530      535      540
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190 <212> TYPE: DNA
191 <213> ORGANISM: Arabidopsis thaliana

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193 &lt;400&gt; SEQUENCE: 3

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202 tcgaatggtg gaattggtgg tcaagtgttt cgaaacggtc ctcttgtag taacgtcctt 540
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261 50 55 60
263 Ser Thr Ala Asp Ile Ser Arg Leu Leu Gln Tyr Ala Ala Asn Gly Lys
264 65 70 75 80
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267 85 90 95
269 Gln Ala Ser Val Ser Gly Gly Val Ile Val Asn Met Thr Cys Ile Thr
270 100 105 110
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273 115 120 125
275 Thr Leu Trp Val Asp Val Leu Lys Lys Thr Ala Glu Lys Gly Val Ser
276 130 135 140
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281 Ser Asn Gly Gly Ile Gly Gly Gln Val Phe Arg Asn Gly Pro Leu Val
282 165 170 175
284 Ser Asn Val Leu Glu Leu Asp Val Ile Thr Gly Lys Gly Glu Met Leu
285 180 185 190
287 Thr Cys Ser Arg Gln Leu Asn Pro Glu Leu Phe Tyr Gly Val Leu Gly
288 195 200 205
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291 210 215 220
293 His Ala Pro Lys Arg Ala Lys Trp Phe Arg Met Leu Tyr Ser Asp Phe
294 225 230 235 240
296 Thr Thr Phe Thr Lys Asp Gln Glu Arg Leu Ile Ser Met Ala Asn Asp
297 245 250 255
299 Ile Gly Val Asp Tyr Leu Glu Gly Gln Ile Phe Leu Ser Asn Gly Val
300 260 265 270
302 Val Asp Thr Ser Phe Phe Pro Pro Ser Asp Gln Ser Lys Val Ala Asp
303 275 280 285
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306 290 295 300
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